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# **Notice of Allowability**

Application No.

10/560,944

Examiner

Erica E. Cadugan

Applicant(s)

KRESS ET AL.

Art Unit

3722

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendments of 8/2/07 & 5/7/07 & interview of October 2007.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## **Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Joshua Dobrowitsky on October 5, 2007.

The application has been amended as follows:

1. (Currently Amended) An interface between two parts of a metal-cutting tool, with a retainer comprising a recess, and an exchangeable tool head, comprising an appendix, which can be inserted into the recess, the exchangeable tool head is arranged in axial prolongation to the retainer, and with a fixture to fix the exchangeable tool head on the retainer, characterized in that the fixture comprises a tension-bolt and an eccentric cam element, wherein the eccentric cam element is operable [over] at a peripheral area of the retainer, and that the tension-bolt comprises a pull stud, which can be inserted into the eccentric cam element, comprising a first clamping surface, and that the eccentric cam element comprises a second clamping surface, wherein a distance between the second clamping surface to a rotary axis of the eccentric cam element varies, wherein the first clamping surface of the tension-bolt is formed convex and the second clamping surface of the eccentric cam element is formed concave, and wherein the eccentric cam element includes stops restricting an amount of rotational movement of the eccentric cam element therebetween.

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2. (Previously Presented) The interface in accordance with claim 1, wherein the pull stud includes a boss having the first clamping surface, the boss can be introduced into the eccentric cam element.

3. (Previously Presented) The interface in accordance with claim 1, wherein the pull stud has a center axis running in the direction of a center axis of the metal-cutting tool.

4. (Previously Presented) The interface in accordance with claim 1, wherein the first clamping surface includes an acute angle to a center axis of the pull stud.

5. (Previously Presented) The interface in accordance with claim 1, wherein the pull stud is connected to the appendix of the tool head or is formed in one piece with same.

6. (Previously Presented) The interface in accordance with claim 1, wherein the pull stud has a stop ring.

7. (Previously Presented) The interface in accordance with claim 1, further comprising a safety element disposed on the retainer, wherein a portion of the safety element abuts one of the stops on the eccentric cam element so as to inhibit rotation of the eccentric cam element in the retainer.

8. (Previously Presented) The interface in accordance with claim 1, wherein the pull stud and the eccentric cam element each have an ejector surface.

9. (Previously Presented) The interface in accordance with claim 1, wherein the rotary axis of the eccentric cam is essentially perpendicular to a center axis of the metal-cutting tool.

10. (Previously Presented) The interface in accordance with claim 1, wherein the eccentric cam element has a hollow space accessible from a radial side of the eccentric cam

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element and wherein the second clamping surface includes an acute angle relative to the rotary axis of the eccentric cam element.

11. (Previously Presented) The interface in accordance with claim 1, wherein an ejector surface of the eccentric cam element is part of an interior surface of the eccentric cam element bounding a cavity in the eccentric cam element.

12. (Previously Presented) The interface in accordance with claim 1, wherein the stops that restrict the rotational movement of the eccentric cam element are in the form of stop surfaces within the eccentric cam element.

13. (Previously Presented) The interface in accordance with claim 1, wherein the eccentric cam element has operating surfaces on at least one end face.

14. (Currently Amended) An interface between two parts of a tool system comprising:

a holder defining a recess;

a replaceable head having an extension insertable into the recess so as to extend axially from the holder;

a pull stud that extends from the replaceable head, the pull stud having a first clamping surface;

an eccentric cam element rotateably disposed in the holder and accessible through a peripheral surface of the holder, the eccentric cam element having a second clamping surface, wherein a dimension between the second clamping surface and a rotational axis of the eccentric cam element varies, the eccentric cam element configured to receive the pull stud and couple the replaceable head to the holder when the eccentric cam element is rotated; and

stops formed on the eccentric cam element that [restricts] restrict an amount of rotation of the eccentric cam element therebetween in the holder.

15. (Previously Presented) The interface between two parts of a tool system of Claim 14, wherein the first clamping surface includes an acute angle to a center axis of the pull stud.

16. (Previously Presented) The interface between two parts of a tool system of Claim 14, wherein the pull stud includes a boss having an ejector surface and the eccentric cam element includes an ejector surface, wherein the eccentric cam element is rotated to a position where the ejector surfaces of the pull stud and the eccentric cam element come into contact to push the replaceable head in an axial direction away from the holder.

17. (Currently Amended) The interface between two parts of a tool system of Claim 14, wherein an axis of rotation of the eccentric cam element is generally perpendicular to a center axis of the replaceable head.

18. (Previously Presented) The interface between two parts of a tool system of Claim 14, wherein the eccentric cam element defines a hollow space accessible from a radial side of the eccentric cam element and wherein the second clamping surface establishes an acute angle relative to an axis of rotation of the eccentric cam element.

19. (Previously Presented) The interface between two parts of a tool system of Claim 18, further comprising a stop ring that extends from the pull stud, the stop ring abuts a portion of the eccentric cam element when the pull stud is received in the eccentric cam element to operably position a boss on the pull stud in the hollow space defined by the eccentric cam element.

20 (Currently Amended). The interface between two parts of a tool system of Claim 14, further comprising a safety element disposed on the holder, wherein a portion of the safety

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element abuts one of the stops on the eccentric cam element so as to inhibit rotation of the eccentric cam element in the holder.

2. The following is an examiner's statement of reasons for allowance:

U.S. Pat. No. 4,723,878 to Kelm et al. is considered to be representative of the closest prior art of record to the present invention as set forth in independent claims 1 and 14. The Kelm reference was described in detail in the Office Action mailed February 5, 2007.

Suffice it to say, while the Kelm reference teaches many aspects of the present claims as described in the Office Action of 2/5/07, Kelm does not teach that the eccentric cam element "includes stops restricting an amount of rotational movement of the eccentric cam element therebetween" as set forth in independent claim 1, nor the similar limitation "stops formed on the eccentric cam element that restrict an amount of rotation of the eccentric cam element therebetween..." as set forth in independent claim 14.

Also, there is no combinable teaching in the prior art of record that would reasonably and absent impermissible hindsight motivate one having ordinary skill in the art to so modify the teachings of Kelm, and thus, for at least the foregoing reasoning, Kelm does not render obvious the present invention as set forth in independent claims 1 and 14.

The aforescribed prior art being representative of the closest prior art of record, for at least the foregoing reasoning, the prior art of record neither anticipates nor renders obvious the present invention as set forth in independent claims 1 and 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

*Drawings*

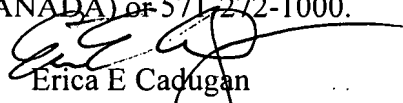
3. The replacement sheets of drawings submitted on May 7, 2007 are approved.

*Conclusion*

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erica E. Cadugan whose telephone number is (571) 272-4474. The examiner can normally be reached on M-F, 6:30 a.m. to 4:00 p.m., alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Monica S. Carter can be reached on (571) 272-4475. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Erica E Cadugan  
Primary Examiner  
Art Unit 3722

Approved  
GEC  
10/3/02

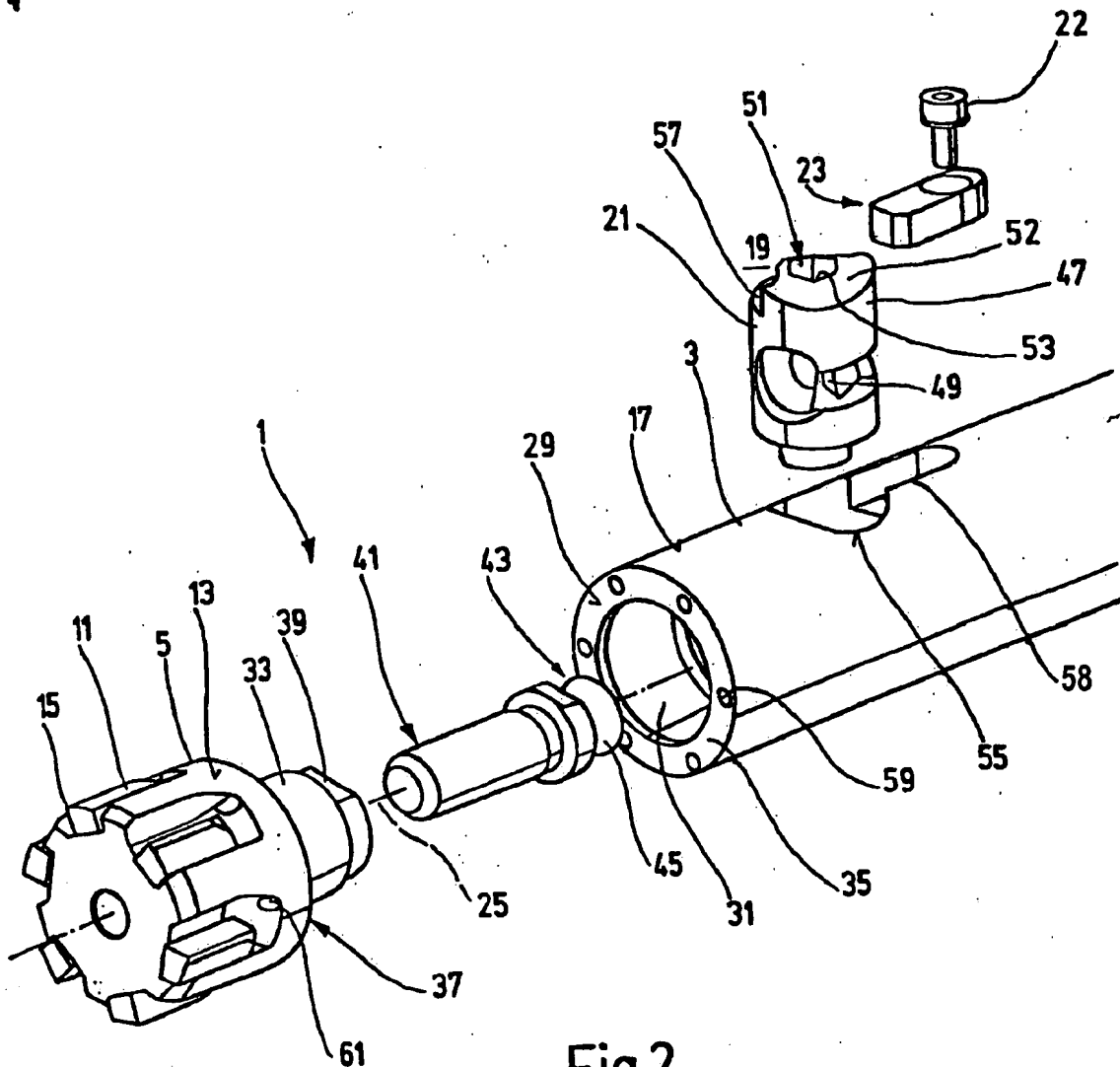
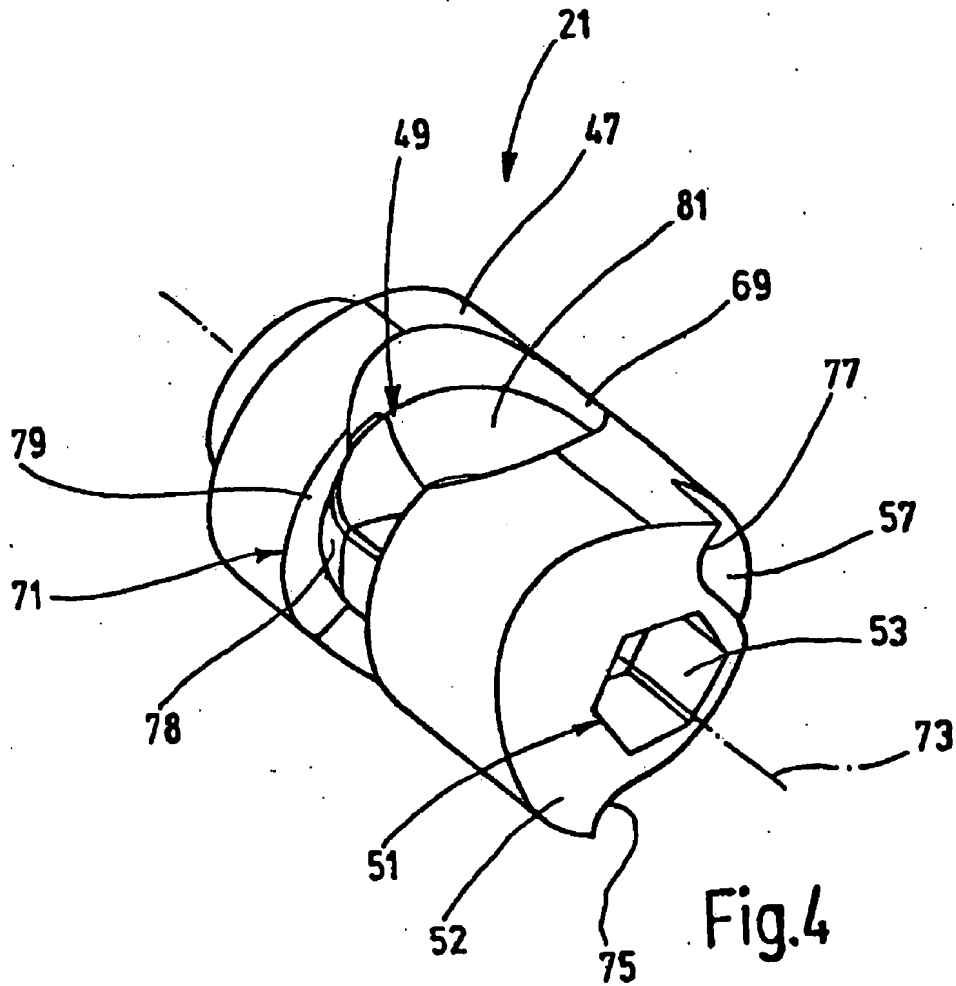
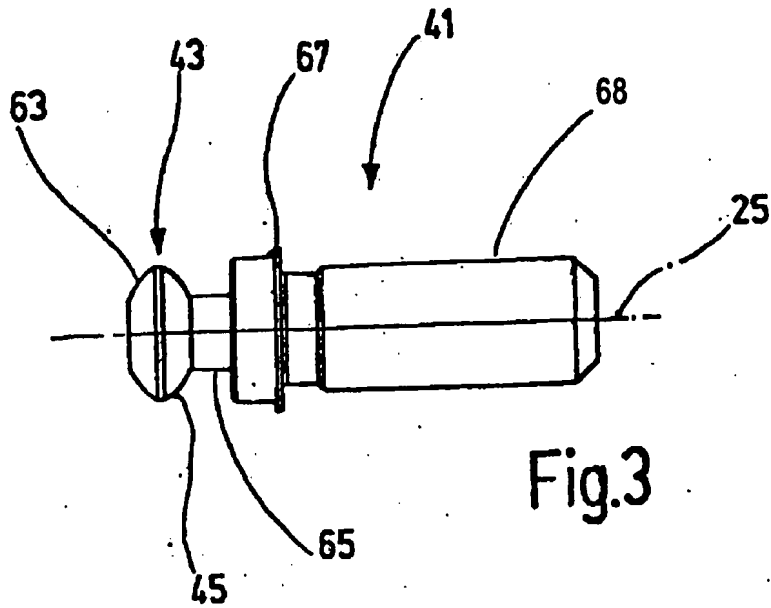


Fig.2

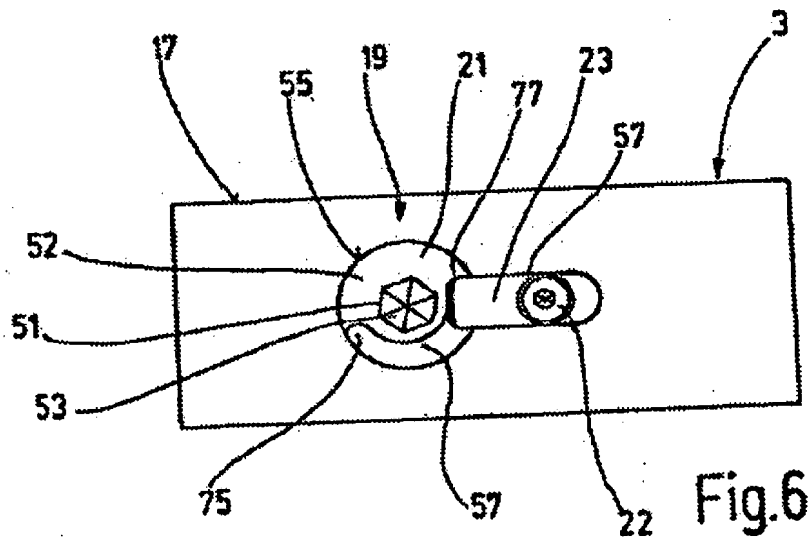
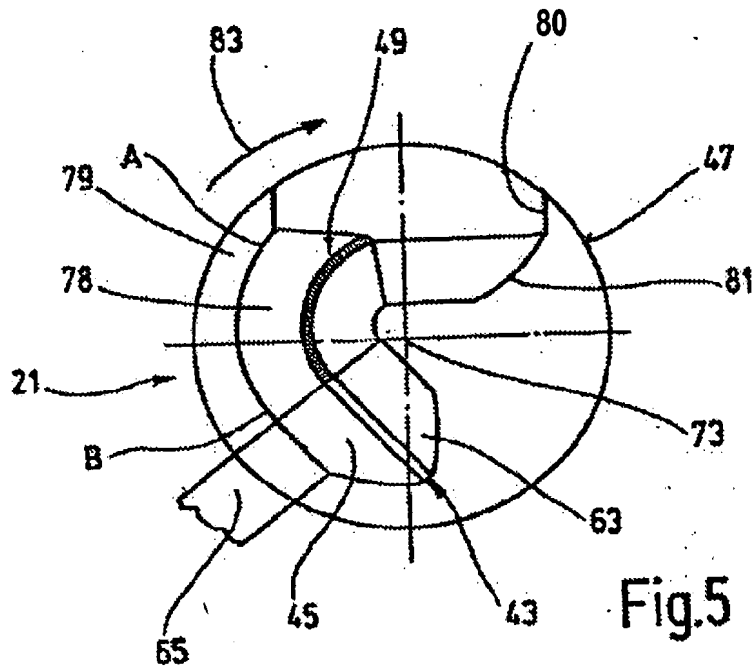


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